OIPE JC56
AUG 25 2004
PATENT & TRADEMARK OFFICE



U.S. Department of Commerce
Patent and Trademark Office

# INFORMATION DISCLOSURE STATEMENT

| Attorney Docket No. | Serial No. |
|---|---|
| 3121/2002 | 10/683,611 |
| Applicant(s): Kirk et al. | |
| Filing Date: October 10, 2003 | Group: 1645 |

## U.S. PATENT DOCUMENTS

| Examiner Initial | | Patent No. | Date | Name | Class | Subclass | Filing Date (if appropriate) |
|---|---|---|---|---|---|---|---|
| VK | 1 | 4,956,282 | 09/11/1990 | Goodman et al. | 435 | 69.51 | 07/29/1985 |
| VK | 2 | 5,484,719 | 01/16/1996 | Lam et al. | 435 | 172.3 | 11/23/1993 |
| VK | 3 | 5,679,880 | 10/21/1997 | Curtiss, III et al. | 800 | 205 | 06/01/1995 |
| VK | 4 | 5,686,079 | 11/11/1997 | Curtiss, III et al. | 424 | 234.1 | 06/01/1995 |
| VK | 5 | US2002/0006411 | 01/17/2002 | Arntzen et al. | 424 | 192.1 | 08/09/2001 |
| | | | | | | | |

## FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document No. | Publication Date | Country | Class | Subclass | Translation | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | YES | NO |
| VK | 6 | WO 86/06076 | 10/23/1986 | PCT | | | | |
| VK | 7 | WO 99/65940 | 12/23/1999 | PCT | | | | |
| | | | | | | | | |

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|---|---|---|
| VK | 8 | International Search Report for PCT/US02/11693 (10/23/2002) |
| VK | 9 | Arakawa, T., et al., "Suppression of Autoimmune Diabetes by a Plant-Delivered Cholera Toxin B Subunit-Human Glutamate Decarboxylase Fusion Protein," *Transgenics* 3:51-60 (1999) |
| VK | 10 | Domansky, N., "Transgenic plants as edible vaccines – reality and future prospects," *Biopolimery I Kletka.* 15:5-9 (1999) |
| VK | 11 | Epifano, O. et al., "Biology and Structure of the Zona Pellucida: a Target for Immunocontraception," *Reprod. Fertil. Dev.*, 6:319-330 (1994) |
| VK | 12 | Fitchen, J., et al., "Plant virus expressing hybrid coat protein with added murine epitope elicits autoantibody response," *Vaccine* 13(12):1051-1057 (1995) |
| VK | 13 | Haq, T., et al., "Oral Immunization with a Recombinant Bacterial Antigen Produced in Transgenic Plants," *Science* 268:714-716 (1995) |
| VK | 14 | Larrick, J.W., et al., "Production of antibodies in transgenic plants," *Res. Immunol.* 149:603-608 (1998) |

| EXAMINER | /Vinod Kumar/ (11/13/2006) | DATE CONSIDERED | 11/13/2006 |
|---|---|---|---|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**Copies of references not provided at the time of this submission.

| USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office<br>INFORMATION DISCLOSURE STATEMENT | Attorney Docket No.<br>3121/2002 | Serial No.<br>10/683,611 |
|---|---|---|
| | Applicant(s):. Kirk et al. | |
| | Filing Date: October 10, 2003 | Group: 1645 |

U.S. PATENT DOCUMENTS

| Examiner Initial | | Patent No. | Date | Name | Class | Subclass | Filing Date (if appropriate) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document No. | Publication Date | Country | Class | Subclass | Translation | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | YES | NO |
| | | | | | | | | |

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|---|---|---|
| VK | 15 | Mason, H., et al., "Expression of Norwalk virus capsid protein in transgenic tobacco and potato and its oral immunogenicity in mice," *Proc. Natl. Acad. Sci. USA* 93:5335-5340 (1996) |
| VK | 16 | Mason, H., et al., "Edible vaccine protects mice against Escherichia coli heat-labile enterotoxin (LT): potatoes expressing a synthetic LT-B gene," *Vaccine* 16(13):1336-1343 (1998) |
| VK | 17 | Mason, H., et al., "Transgenic plants as vaccine production systems," *Trends in Biotechnology* 13(9):388-392 (1995) |
| VK | 18 | Mestecky, J., et al., "Routes of Immunization and Antigen Delivery Systems for Optimal Mucosal Immune Responses in Humans," *Behring Inst. Mitt.*, 98:33-43 (1997) |
| VK | 19 | Ogra, P., et al., "Vaccination Strategies for Mucosal Immune Responses," *Clin. Micro. Rev.* 14(2):430-445 (2001) |
| VK | 20 | Prasad, S.V., et al., "Molecular biology approaches to evaluate species variation in immunogenicity and antigenicity of zona pellucida proteins," *J. Reprod. Fert. Supp.* 50:143-149 (1996) |
| VK | 21 | Ruedl, C., et al., "Features of Oral Immunization," *Int. Arch Allergy Immunol.* 108:334-339 (1995) |
| VK | 22 | Stöger, E., et al., "Ceral crops as viable production and storage systems for pharmaceutical scFv antibodies," *Plant Molecular Biol.* 42:583-590 (2000) |
| VK | 23 | Yu, J., et al., "Assembly of Cholera Toxin-Antigen Fusion Proteins in Transgenic Potato," *Transgenics* 3(2-4):153-162 (2001) |
| VK | 24 | Tacket, C., et al., "Immunogenicity in humans of a recombinant bacterial antigen delivered in a transgenic potato," *Nature Medicine* 4(5):607-609 (1998) |
| VK | 25 | Smith, G., et al., "Plant-derived immunocontraceptive vaccines," *Reprod. Fertil. Dev.* 9:85-89 (1997) |

| EXAMINER | /Vinod Kumar/ (11/13/2006) | DATE CONSIDERED<br>11/13/2006 |
|---|---|---|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**Copies of references not provided at the time of this submission.